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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,903	07/09/2003	Koichiro Nakatani	115914	8441
25944	7590	03/01/2005	EXAMINER	
OLIFF & BERRIDGE, PLC			TRAN, DIEM T	
P.O. BOX 19928				
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			3748	

DATE MAILED: 03/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/614,903	NAKATANI, KOICHIRO	
	Examiner Diem Tran	Art Unit 3748	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 November 2004.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-18 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-18 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- 1.) Certified copies of the priority documents have been received.
- 2.) Certified copies of the priority documents have been received in Application No. _____.
- 3.) Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

This office action is in response to the Request for Reconsideration filed on 11/18/04.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Deeba et al.

(US patent 6,105,365).

Regarding claims 1, 10, Deeba discloses an exhaust emission control apparatus of an internal combustion engine in which combustion is continuously performed at a lean air/fuel ratio, the exhaust emission control apparatus comprising:

a NOx catalyst (42) provided in an exhaust passage of the internal combustion engine for storing NOx contained in an exhaust gas at a lean air/fuel ratio flowing into the exhaust passage, and reducing the stored NOx in the presence of a reducing agent in the exhaust gas when the air/fuel ratio of the exhaust gas is lowered (see col. 4, lines 44-60),

a reducing agent supply valve (32) that is provided in the exhaust passage upstream of the NOx catalyst, through which the reducing agent is supplied to the NOx catalyst, and a controller that temporarily decreases the flow rate of the exhaust gas while supplying the reducing agent through the reducing agent supply valve so as to execute a control of the flow rate of the exhaust gas flowing through the NOx catalyst in accordance with a value indicating a state

of the exhaust gas flowing through the NOx catalyst, the value being variable upon supply of the reducing agent through the reducing agent supply valve (see col. 5, lines 56-67, col. 6, lines 1-18, col. 10, lines 28-55).

Regarding claims 2, 11, Deeba further discloses that the value indicating the state of the exhaust gas comprises a NOx concentration of the exhaust gas (see col. 5, lines 56-65).

Regarding claims 3, 12, Deeba further discloses that the controller controls the flow rate of the exhaust gas that flows through the NOx catalyst upon the supply of the reducing agent through the reducing agent supply valve such that the value indicating the state of the exhaust gas accords with a target value (see col. 5, lines 56-61, col. 6, lines 1-18, 39-46, col. 10, lines 27-53).

Regarding claims 4, 5, 13, 14, Deeba further discloses that the controller controls the flow rate of the exhaust gas that flows through the NOx catalyst upon the supply of the reducing agent through the reducing agent supply valve so as to accord a time period elapsing from a predetermined reference timing until the value indicating the state of the exhaust gas reaches a peak upon the supply of the reducing agent through the reducing agent supply valve (see col. 6, lines 39-46).

Regarding claims 6, 15, Deeba further discloses that the controller controls a quantity of the reducing agent supplied through the reducing agent supply valve on the basis of the value indicating the state of the exhaust gas at a timing after the execution of the control of the flow rate of the exhaust gas that flows through the NOx catalyst upon the supply of the reducing agent through the reducing agent supply valve (see col. 6, lines 39-47).

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Regarding claims 7, 8, 16, 17, Deeba further discloses that the controller serves to continuously change the flow rate of the exhaust gas from a timing when the flow rate of the exhaust gas flowing through the NOx catalyst is decreased until restoration of the flow rate of the exhaust gas (see col. 6, lines 27-47).

Regarding claims 9, 18, Deeba further discloses that the controller controls a time period taken for the supply of the reducing agent through the reducing agent supply valve on the basis of the value indicating the state of the exhaust gas (see col. 6, lines 40-46).

Response to Arguments

Applicant's arguments filed on 11/18/04 have been fully considered but they are not deemed persuasive.

Applicant has argued that the Deeba reference fails to disclose controlling a flow rate of the exhaust gas in accordance with a NOx value that is variable when the reductant is supplied from the injector means 30 and 32. The Examiner respectfully disagrees, Deeba discloses controlling a flow rate of the exhaust gas in accordance with a NOx value measured by a NOx sensor (43) (see Figure 1, see col. 5, lines 56-67). When the reductant is supplied from the injector means 30 and 32, the downstream NOx sensor is effected thereby, at some point the exhaust gas flow rate is changed based on the signal of the NOx sensor (see col. 10, lines 28-55). Accordingly, the flow rate of the exhaust gas is variable with the flow rate of the reductant. Applicants claim language does not define over the system of Deeba.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies are not recited in

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Applicant's claim language does not preclude the system of Deeba.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies are not recited in

the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to Examiner Diem Tran whose telephone number is (571) 272-4866. The examiner can normally be reached on Monday -Friday from 8:30 a.m.- 5:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (571) 272-4859. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Diem Tran
Patent Examiner
Art unit 3748

DT

February 22, 2005

THOMAS DENION
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700